

The Miracle Of House Crops



**Plant growth promotion device based
on biometric metabolism activation**

Hanbit E&B Co.,Ltd.
May 2021

Hi Fresh



Hi Fresh-AG





- Trial cultivation and field application for several years
- Lettuce, cucumber, eggplant, pepper, strawberry, cherry tomato, melon, hallabong, mushroom, etc.
- Confidence in Hi Fresh-AG
- Preparation of grounds for business promotion
- The need to expand the product base
- Difficulties in initial investment by farmers

Relationship
between the
manufacturer and
the farmhouse



- Hanbit E&B's LST technology development (Life Signal Transduction)
- Deterioration of living organisms due to environmental degradation
- Restoring to its original state of nature
- Maintaining the freshness of harvested crops
- Extension of storage period, adjustment of shipping date
- Resistant to disease and increases yield 1.5~2 times

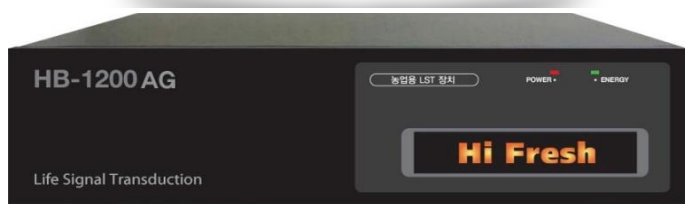
- Minimize the initial cost burden on the farm
- Application of the trial purchase system
 - Ease of activation of sales operations
 - Partial burden of increase in production and income
 - After a certain period of use, payment or return
- Long-term win-win strategy for farmers and companies

Hi-Fresh is?

- LST technology increases the freshness of all foods we eat, prolongs the storage (preservation) period, and restores and improves the unique taste and nutrition of foods.
- In the case of facility agriculture, it promotes the growth of crops and grows them in a robust state that is resistant to diseases and pests, thereby increasing yields, improving product grades, and extending harvesting periods.

LST is?

- **LST (Life Signal Transduction)** technology is a technology of a new paradigm that restores the deteriorating state of a living body to its original state in an increasingly deteriorating ecological environment. It is a technology that promotes homeostasis by restoring and activating energy.
 - Corrects false signals of living things
 - Increases homeostasis by activating cells
 - Virus becomes friendly and does not deteriorate the target
- This unique technology is called LST (Life Signal Transduction).



Hi Fresh-AG (HB-2100)

- Capacity suitable for the farmhouse site
- System custom design
 - Size : 420(W)x370(D)x115(H)mm
 - Weight : 12 ~ 15 Kg
 - Allowable power : 4.0 ~ 5.8 Kw

Unique use effect of Hi Fresh-AG

Moisture restoration

Promote hexagonal hydration, absorption and discharge of moisture in crops

Promote growth

Promote crop growth and maintain a healthy condition-Reduce pests and diseases

Increase in harvest

More than twice the yield, extending the harvest period by 30%

Keep fresh

Maintaining freshness until shipment through moisture restoration, extending storage period

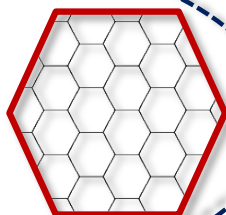
Grade improvement

Rating upgrade (increase in the proportion of special products) → Increase in farmhouse profits

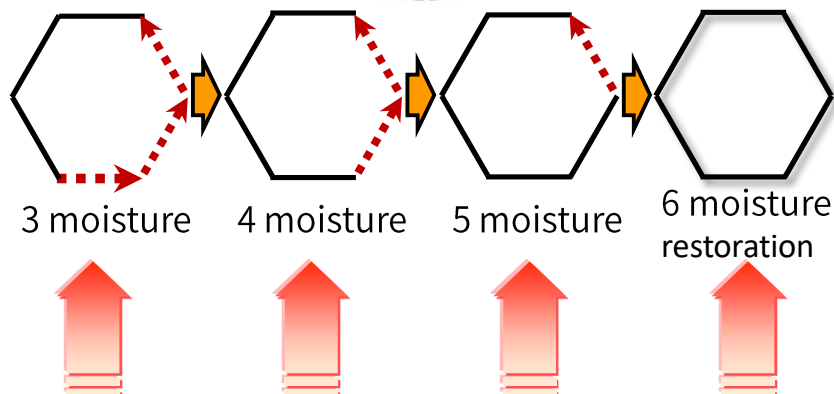
Environment improvement

Reduction of pests and improvement of farm cultivation environment

Small hexagonal clusters after Hi Fresh treatment



Water knows the answers
: The hidden messages in water crystals
(by Masaru Emoto)



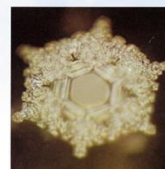
Transmission of restoration signals

Signal transmission

물은 답을 알고 있다

Water Knows The Answers : The hidden messages in water crystals

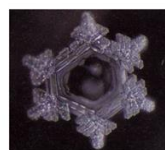
에모토 마사루 지음 / 홍성민 옮김 / 더난출판



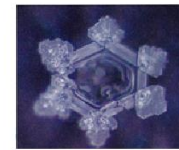
사랑-감사



고맙습니다



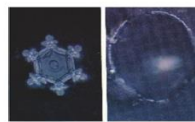
귀여워



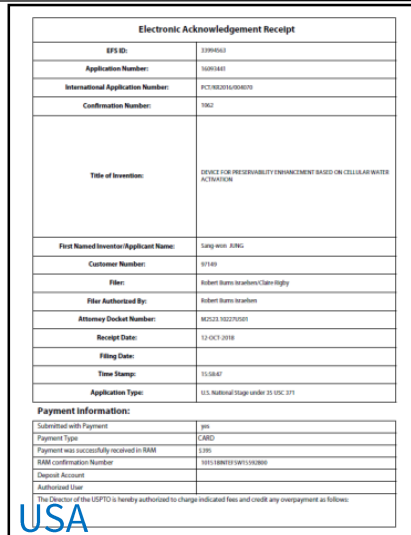
"참 예뻐" 하고 자주 말을 건넸다



방치하고 무시했다

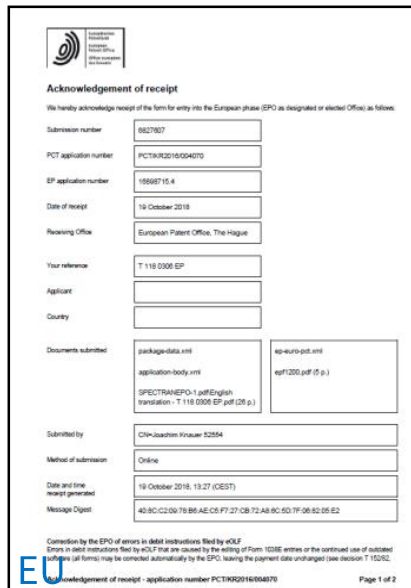
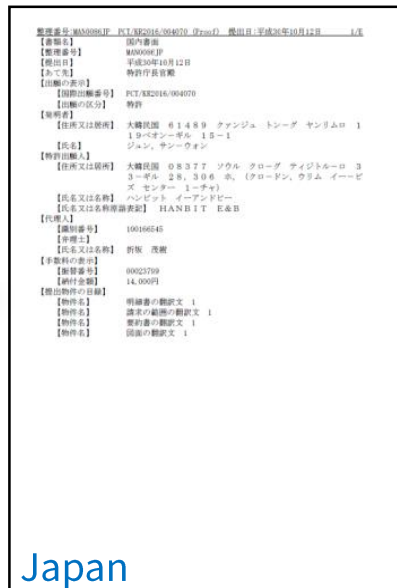


전자레인지



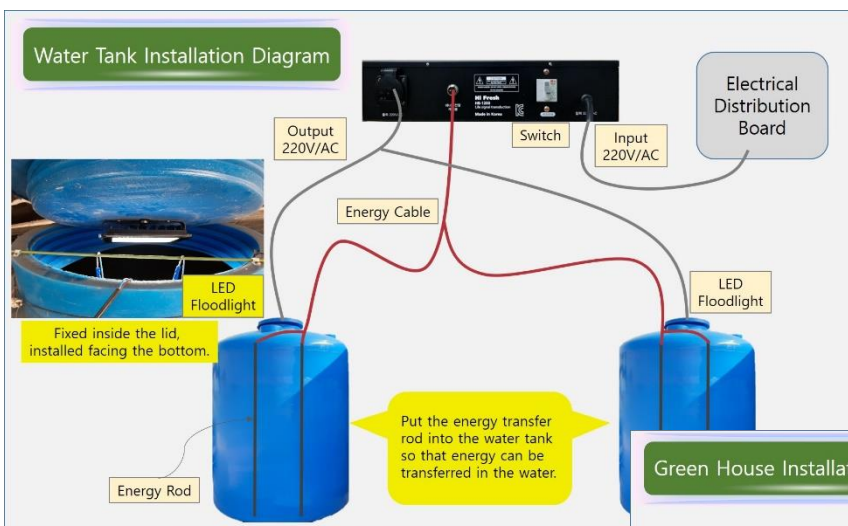
China

USA



Japan

Domestic patent (No. 10-1728803) Cellular water activation-based retention improvement device



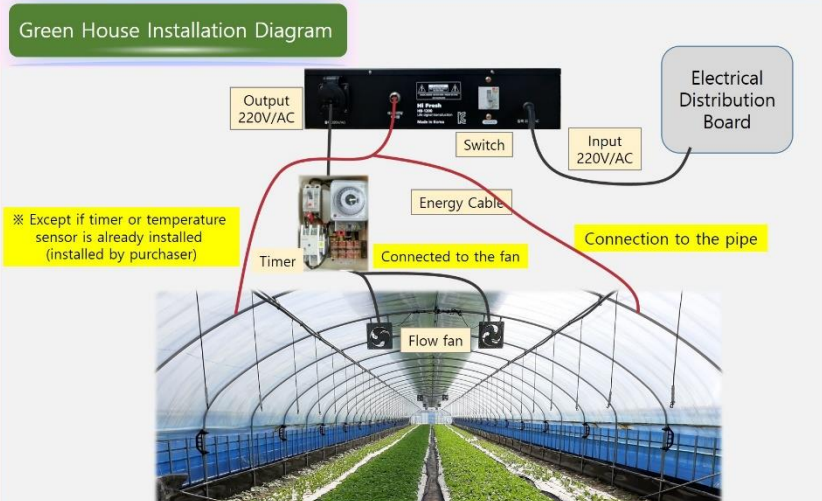
Water tank

- LST energy treatment of stored water(at least 24 hours)
- Water from tank A and water from tank B are used alternately for a day a day



Vinyl greenhouse

- Energy transfer through iron pipes
- Convection fan installation for energy circulation in the house



LST technology applied growth promotion farm

Hanbit E&B Co.,Ltd. / Essel Farm



- Essel Farm
- Yangsan-ri, Wanggok-myeon, Naju-si
- Hee-sang Lee, CEO
(010 4609 7773)



- Convection fan in the house & water tank
- Hi Fresh-AG 6 units installed



1st batch
of flowers




2nd batch
of flowers



3rd batch
of flowers



- Dongbin's Strawberry Farm
- Seong-soon Lim, CEO
(010-6430-1460)
- 7 units installed in house and water tank

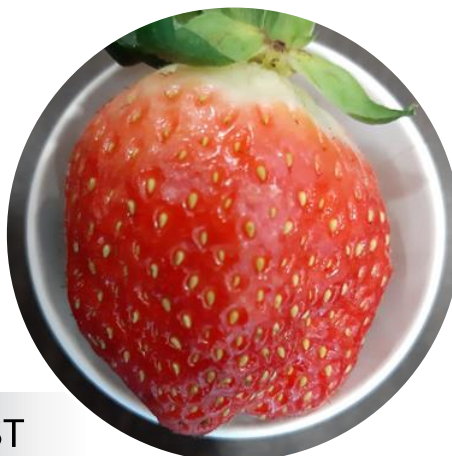




Comparative test of strawberry application
of agricultural high-fresh LST technology



Comparison before/after LST
treatment of nursery seedlings



treated



untreated





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042)486-0006

21세기 부여신문

[8] 2020년 12월 24일 목요일

2004년 6월 24일 창간

대표전화 (041)834-2100 FAX (041)834-8279 21세기 부여신문



흰 눈 내리는 겨울 최고의 명품 딸기 '싱싱딸기'

서부여농협 오영환 조합장. 강추위속 딸기 농가 현장 방문.

명품 '싱싱딸기', '참나무원목표고버섯' 선별장 현장 업무

서부여농협(조합장 오영환)은 부여군 농업중 가장 많은 4개 조합이 합법한 농업으로 '명품 싱싱딸기'로 더욱 유명해졌다.

특히 출산을 중심으로 '싱싱딸기'작목회(작목회장 하종성, 부여군 농업인단체연합회장)는 지역의 많은 작목회중에서도 가장 모범적인 운영으로 작목회 회원들 중심으로 단합이 잘 되고 있다. 서부여농협 오영환 조합장은 올 겨울들이 가장 추운 지난 15일 영하4도의 매서운 강추위에도 지역 딸기 농가를 이른 아침부터 찾아 현장 업무로 시작했다. 오 조합장은 이번 겨울 새로운 방법을 도입하여 큰 효과를 거두고 있는 임성순 농가를 방문했다.

임성순 회장은 딸기 상태를 보여주며 "딸기 농사 20년만에 올해가 최고의 작황"이라면서 "딸기의 발육도 좋지만 무엇보다 '이 화방'이 전체적으로 나오고 있는 점이 나 스스로도 놀라지 않을 수 없다"고 설명했다. 또한 '설랑'도 올해 좋지 않은 날씨로 하우스로 자리를 옮기면서 '금살'을 하나 따 주며 "이 맛을 한번 느껴보시라."

'설랑'하고 어떠한 차이가 있는지?...라고 딸자에게 물었다. '금살'의 맛은 딸기의 육질이 더 많고 그 딸기만의 특색한 향이 먹고 난 후에도 입 안에 남아있을 만큼 맛도 강했다. 딸기 본래의 맛이 진하다고 해야 가장 근접한 대답일 듯 하다. 임성순 회장은 '설랑'과 '금살' 품종 모두 성공한 이유로 "농업용 LST 장치 HI Fresh" 기계를 도입하여, '유각수'를 공급한 효과"라고 강조했다.

그는 "쉽게 전자파를 이용하여 물을 분해한 '유각수'를 공급한다"는 설명이다. 임 회장은 기계를 가리키며 "5대초 왼쪽의 3대는 물을 분해해주고, 그 옆 2대는 전자파를 공급하고 있다"면서 그 옆의 큰 FRP 파란 저수조를 가리키며 "용 두께를 열면 두께 안쪽에 바로 전자파를 공급하며, 최소 2시간, 보통은 30시간이상 필요"라고 말했다.

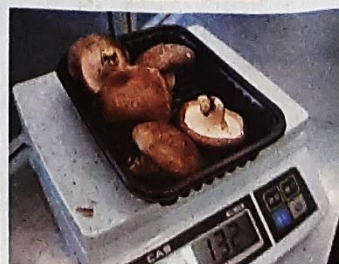
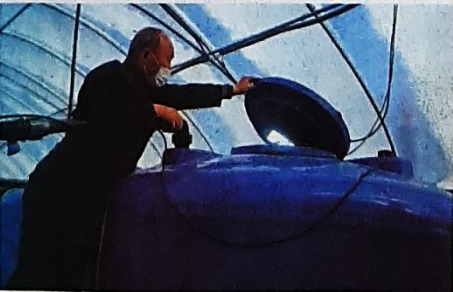
이어 "이렇게 해 봤더니 7등 하우스 전체에서 '설랑'과 '금살' 모두 각기 다른 품종에서 똑같이 '이화방'이 나오면서 딸기의 크기도 지금껏 경험하지 못한 만큼 평균적으로 훨씬 크고 맛도 좋고"고 한주어 말했다.

특히 임 회장은 "금살"은 '설랑'보다 딸기함도 훨씬 진하고 맛도 뛰어나며 무엇보다 가격도 50%이상 높은 장점이 있다"고 자랑했다. 오영환 조합장은 임성순 회장의 설명을 듣고 "올 딸기 농사를 경험한 결과를 보고 '싱싱 딸기'작목회'에 기계 도입을 적극 추천하자"면서 "부여군에도 딸기 농가들에게 보급할 수 있도록 현장으로 초청 직접 확인하게 하고 보조 사업 건의를 하면 부여 딸기의 품질이 한단계 더 업그레이드 될 것"이라고 자신했다.

오영환 조합장은 임성순 회장의 농장에서 이곳 저곳 모든 상황을 꼼꼼히 살펴, 서부여농협의 대표 작목이자 부여군의 명품 '싱싱 딸기'에 대한 애착을 보여줬다.

딸기 농장에서 1시간여 현장 참관후 곧바로 유통센터로 이동한 오영환 조합장은 서부여농협에서 거의 유일하게 1년 내내 생산 수확하고 있는 '표고버섯' 선별장을 찾아 예로사원과 버섯의 품질을 확인 했다.

또 조합원들이 선별해온 '밤'의 당입 출하 가격을 일일이 확인하고, 직원들에게 '밤'의 사업성 및 포장부터 유통에 이르기까지 여러 사업 변화를 적극적으로 검토하고 추진하라는 현장 행령을 펼쳤다. 서부여농협 유통센터는 조합원이 편안하게 이용할 수 있는 편리성과 정 상무팀 비롯 임직원들이 쾌적하고 친절한 특히 조합원을 배려한 업무 추진으로 조합원들에게 신뢰를 받고 있다.





Pepper farm

1. Summary

- Location : Nampyeong-eup, Naju-si,
- Facilities : 4 greenhouse, a total of 2,650 m²
- Cultivated crops : pepper
- Equipment installation : July 2019
- Applicable object : water tank, low temperature warehouse

2. Annual sales

- July ~ Dec. 2019 : 42 million won
- January 2020: Changed varieties to eggplant and others for trial cultivation

3. Remarks

- Compared to other farms, the yield per unit area is 1.8 to 2.2 times higher
- Pepper has a glossy and smooth skin, and grows straight without warping
- Extend the harvest period
- It is installed in a low-temperature warehouse to extend the storage period and adjust the shipping time easily.
- When judging the grade of the trial hall, it is judged as a special grade (Approximately 80% special grade judgment)
- **6 months sales comparison with other farms**
 Naju Farm : 9,400 \$ per 660 m²
 Other farms: 5,290 \$ per 660 m²



Water application, special product ratio 80% or more, yield 1.6 ~ 2 times increase

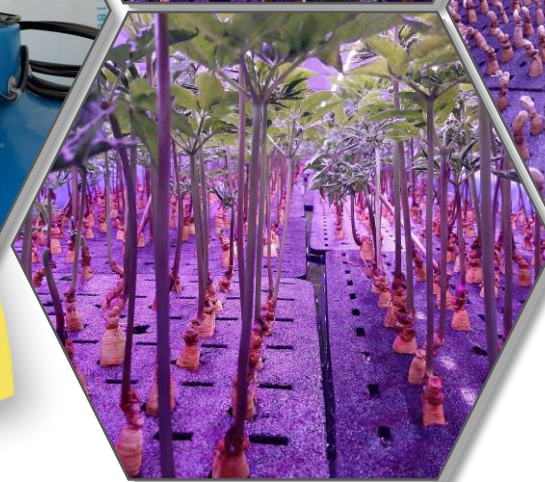
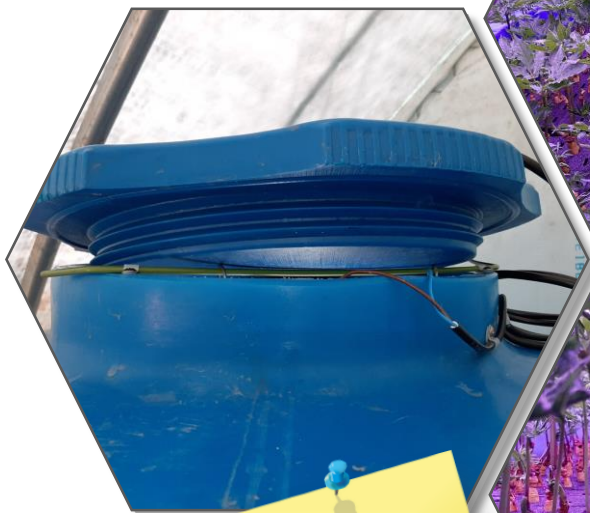
Water
tankhouse fan
(3,970 m²)Naju
Cherry tomatoWater
tankGeumsan
sesame leafhouse fan
(3,640 m²)

Water
tank

house fan
(1,650 m²)

Naju
Mulmaru
Jinseng

Shiitake mushrooms
water tank, greenhouse,
low temp. warehouse



Grape
(Shine musket)Uiseong, Cheonan
Cucumber

Apple watermelon



Melon



The Farmers Newspaper

2021년 4월 19일 월요일

전면광고

농민신문



딸기가 대박이야!

식물성장촉진장치『하이후레쉬』로
하우스 재배의 기적을 체험 하십시오.

<<국내 150여 농가 사용 중>>



- 수확량의 획기적 증가
- 수확기간 연장
- 출하등급 상승



한국특허 제 10-1728503호
유형인원 특허등록 완료
미국, 일본, 중국 특허 심사 중

LST기술 기반 [식물성장 촉진장치] 세계최초 개발!!

모든 작물의 차별화된 재배효과를 기대하세요.



(주)한빛 E&B

HANBIT E&B Co., Ltd.

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구매
상담 1899-3046

하이후레쉬

www.hifresh.kr

Strawberry [Demonstration Farm : Palchung-ro, Hongsan-myeon, Buyeo-gun, Chungnam \(Dongbin's Strawberry Farm\) Lim OO 010-6430-0000](#)

- Strawberries open as a large fruit (large fruit ratio is more than 70%)
- 2, 3, 4, 5 batch of flowers are harvested continuously, and the yield is more than 1.5 to 2 times
- Observing the harvest from June to July
- Berries like strawberries and fruits can be opened well when the leaves are thinned (Leaf thinning, nitrogen control)

Cucumber [Demonstration Farm : Hwadeok-ri, Dong-myeon, Cheonan-si, Chungnam Park OO 010-9181-0000](#)

- Cucumber seedlings are strong, flowers are thick, and cucumbers generally grow straight
- The product is produced evenly, and the yield is increased due to fruiting in each flower shop

Melon [Demonstration Farm : Donggok-ri, Seji-myeon, Naju-si, Jeonnam Kook OO 010-7252-0000](#)

- The early seedlings are strong and the flower buds are thick, so they grow into more than standard melon
- At the time of shipment, income increases due to improvement in grade

Cherry tomato [Demonstration Farm : Donggok-ri, Seji-myeon, Naju-si, Jeonnam Kook OO 010-7252-0000](#)

- The growth of the seedlings is strong, and the cherry tomatoes grow large and do not fade
- It becomes the unique taste of tomato and the sugar content is increased
- Each flower bud is fruited and the yield increases

Pepper [Demonstration Farm : Pyeongsan-ri, Nampyeong-eup, Naju-si, Jeonam Park OO 010-4662-0000](#)

- The growth of seedlings is good, and the yield is increased due to the high fruiting rate of flower buds
- It grows straight without bending, but the grade of the product is improved

Eggplant [Demonstration Farm : Jungdong Danmil-ro, Ganmil-myeon, Uiseong-gun, Gyeongbuk, Lee 010-3547-0000](#)

- Branches grow straight, yields increase, and sales grades increase
- The unique taste of eggplant is excellent, the scent is excellent, and the flesh is soft

Grape Demonstration Farm : Bokpyeong-ri, Bogae-myeon, Anseong-si, Gyeonggi
 Kwon OO 010-4741-0000

- Large grape clusters, thicker grains, and higher sugar content
- Increased storability

Blueberries Demonstration Farm : Donggok-ri, Seji-myeon, Naju-si, Jeonnam
 Baek OO 010-6237-0000

- The clusters of blueberries are large, the grains are thicker, and the sugar content increases.
- Early seedlings become strong, flowers bloom a lot, and the color of blueberries darkens.

Hallabong Demonstration Farm : Poonglim-ri, Nampyeong-myeon, Naju-si, Jeonnam
 Kim OO 010-5069-0000

- Higher ratio of special products (7–8 pieces) (50–70%)
- Increased sugar content and fragrance

Apple watermelon Demonstration Farm : Haeuri, Hyeongyeong-myeon, Muan-gun, Jeonnam

- Increased production rate of standard apple watermelon(1.2kg or more)
- The sugar content is improved

Lettuce Demonstration Farm : Yangsan-ri, Wanggok-myeon, Naju-si, Jeonnam (Essel Farm)
 Lee OO 010-4069-0000

- Harvest is harvested twice a week, increasing the yield (2-4 times)
- The harvesting period is about 5 to 8 months, and the shipping grade is remarkably increased
- In particular, it is easy to cultivate summer lettuce because it withstands high temperatures, which leads directly to high income

Sesame Demonstration Farm : Eumdae-ri, Namil-myeon, Geumsan-gun, Chungnam
 Ha OO 010-2410-0000

- Water mold disease, which is common in early seedlings, is remarkably eliminated, and the survival rate is increased to 99%
- The leaves become thicker and the unique scent of sesame leaves is outstanding
- As the harvesting period is prolonged, the yield is increased and the grade of the product is improved

Bok choy Demonstration Farm : Pyeongchonan-gil, Iljuk-myeon, Anseong-si, Gyeonggi
 Seo OO 010-4089-0000

- Abandonment becomes full, increasing weight and increasing the shipping grade.
- Freshness is improved and texture is good.

Mushroom Demonstration Farm : Goejeong-gil, Baeksan-myeon, Buan-gun, Jeonbuk Yeo OO 010-2352-0000

- The unique aroma of mushrooms is improved and the taste and texture are excellent
- In the case of medium cultivation, it is produced steadily until the end

Bionursey Demonstration Farm : Jinan-dong, Hwaseong-si, Gyeonggi Kim OO 010-5201-0000

- The germination rate of seeds is increased
- The seedling grows sturdily and has more fine roots, so after planting, the survival rate increases

Piggery Demonstration Farm : Hakdong-ri, Sinbuk-myeon, Yeongam-gun, Jeonnam Kang OO 010-3601-0000

- Reduces the odor of piggery
- Increased feed absorption rate to promote growth and reduce feed
- The environment is improved by reducing the access of raw animals around the piggery
- Improved meat quality
- 2 water tanks 10 tons / 2 silos 3 tons, 1 silo 5 tons, 2 silos 7 tons (connected in a row) / steel plate connection
- Pig house 1322m² (steel sandwich panel)
- 400 tons of liquid manure storage (2ea) / 600 tons (1ea) (steel plate material)
- 10 days after installation
: Significantly reduce the number of rats in the pig farm, such as around the feed warehouse
- After 60 days of installation
: About 80% of rats inhabited are reduced
Pig's hair is shiny
The whole pig in the pig farm is lively

Location (Address)			Farm name Farmer	Phone number
Cultivated crops				Area : m ²
Greenhouse state	House number : EA (single / connected)	Area per house : m ² (width: height: length:)		
Water tank	material :	Quantity : 3ton () 5ton () 10ton ()		
Water supply form				
Fan	with / without	Per house : EA		
Installation request	Greenhouse () EA / water tank () EA / Low temperature warehouse () EA			
Remarks				
Schematic diagram of the site				